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Edison High School Agriculture Classes

Agriculture Courses

Agriculture, Food and Natural Resources

Course Number AG F&NR 1.25 credit

Fr/Soph Introductory

This course will teach students how to work in groups and develop their leadership abilities through hands on activities. Students will use the opportunities the FFA provide for growth and build upon their interpersonal skills. Students will use the animal science unit to promote proper animal husbandry and production to make sound decisions as a producer and consumer. Students will explain and demonstrate the basics in plant production and harvesting in helping make sound decisions as a consumer and producer. FFA participation and SAE development required.

Animal Science & Technology

Course Number AG ASCI&TECH 1.25 credit

Soph/Jr./Sr.

This course will introduce the learner to career options and skill development including business leadership, problem-solving and communication skills in relation to the science and technology of animals. The course will introduce the student to responsible animal management principles and routine husbandry practices in relation to animal welfare and behavior. Learners will identify and describe the anatomy and physiology of monogastric and ruminant organisms as it applies to nutrition, reproduction, and animal health. Learners will investigate animal genetics and how it impacts principles of animal improvement, selection and marketing. This is the first course in the pathway. FFA participation and SAE development required.

Animal Nutrition, Health and Reproduction

Course Number AG ANUT&REPO 1.25 credit

Soph/Jr/Sr

Learners will apply principles of nutritional management for various classes of animals. Learners will analyze nutritional content/quality of feeds; formulate rations; develop feeding recommendations; identify deficiency symptoms and implement corrective methods as needed. Care/management plans are developed that reflect the classification of animals and follows best practices and legal compliance. Learners will monitor/evaluate the quality of animal habitats and estimate carrying capacity as it relates to the impact of the environment and animal health. FFA participation and SAE development required.

Plant & Horticultural Science

Course Number AG PLANT & HORT 1.25 credit

Soph/Jr/Sr Will Receive 3 credits from Zane State College toward the farm management and farm production systems program

This course focuses on skills and technologies essential for agricultural and/or horticultural crop production. Cultural and sustainable production practices will be examined. Students will apply scientific knowledge of plant development, nutrition, and growth regulation. Environmental aspects of irrigation, chemical application and soil conservation will be evaluated. The course will also include equipment and precision technologies used in the industry. Projects and activities will enable students to develop communication, leadership, and business management skills. This course will include time and operations in the greenhouse. FFA participation and SAE development required.

A&E Structural Engineering

Course Number AG STRUCENG 1.25 credit

Soph/Jr/Sr

Students will develop skills in utilizing different construction materials and methods. Students will be able to prepare sites by using mapping and surveying methods along with soils evaluation. Learners will discover the different forms of designing and planning for a project. Students will learn skills in metal fabrication, electricity, concrete and masonry, plumbing, and basic building construction. Students will learn other critical components of structural engineering including safety, business law and regulations. FFA participation and SAE development required.